

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:****CLAIMS-WHAT IS CLAIMED IS:**

1. (Currently Amended) An injector for gaseous fuel, the injector comprising:  
a body (1) comprising: provided with  
a chamber of the body in which there is mounted a valve member and an actuator means for actuating the valve member between a closed position and an open position in which the valve member defines a fuel flow section;  
a fuel feed duct (5);  
and with a fuel delivery duct (6),  
wherein the fuel feed duct (5) and the fuel delivery duct (6) opening open out into a chamber (4) of the body (1) ~~in which there are is mounted a valve member, (16) and an actuator means (18, 19) for actuating the valve member (16) between a closed position and an open position in which the valve member (16) defines a fuel flow section,~~  
wherein the fuel delivery duct (6) comprises includes a calibrated segment (10) of section smaller than the fuel flow section defined by the valve member (16) when the valve member is in the open position.
2. (Currently Amended) An injector according to claim 1, wherein the fuel delivery duct (6) ~~includes~~ comprises a frustoconical segment (9) extending from the chamber (4) to the calibrated section (10), tapering towards the calibrated section.
3. (Currently Amended) An injector according to claim 2, wherein the frustoconical segment (9) has an angle at the apex of the frustoconical segment of less than about 55°.
4. (Currently Amended) An injector according to claim 1, wherein the fuel delivery duct (6) is arranged to obtain a flow speed of fuel in the calibrated segment (10) that is substantially sonic.
5. (New) An injector according to claim 2 wherein the frustoconical segment has an angle at the apex of substantially 40°.
6. (New) An injector according to claim 1, comprising:  
a bottom half-body; and

an end piece mounted on the bottom half-body.

7. (New) An injector according to claim 1, comprising a single part which comprises both a bottom half-body and an end piece.
8. (New) An injector according to claim 1, wherein the actuator means comprises mechanical means.
9. (New) An injector according to claim 8, wherein the mechanical means comprises a spring.
10. (New) A fuel injector, the injector comprising:  
a body comprising:  
a chamber in which there is mounted,  
a valve member, and  
an actuator for actuating the valve member between a closed position and an open position, the valve member defining a fuel flow section when it is in the open position;  
a fuel feed duct; and  
a fuel delivery duct, the fuel delivery duct opening into the chamber;  
wherein the fuel delivery duct comprises a calibrated segment of section smaller than the fuel flow section which is defined by the valve member when the valve member is in the open position.
11. (New) An injector according to claim 10, wherein the fuel delivery duct is arranged to obtain a flow speed of fuel in the calibrated segment that is substantially sonic.
12. (New) An injector according to claim 10, wherein the fuel delivery duct includes a frustoconical segment extending from the chamber to the calibrated section, tapering towards the calibrated section.
13. (New) An injector according to claim 10 wherein the frustoconical segment has an angle at the apex of less than about 55°.
14. (New) An injector according to claim 10 wherein the frustoconical segment has an angle at the apex of substantially 40°.

15. (New) An injector according to claim 10 comprising:  
a bottom half-body; and  
an end piece mounted on the bottom half-body.
16. (New) An injector according to claim 10 comprising a single part which comprises both a bottom half-body and an end piece.
17. (New) An injector according to claim 10 wherein the actuator comprises a spring.
18. (New) A fuel injector, comprising:  
a body;  
a valve associated with the body and having an open position, the valve member defining a fuel flow section when it is in the open position; and  
a fuel delivery duct, the fuel delivery duct opening into the chamber and comprising a calibrated segment of section smaller than the fuel flow section.
19. (New) A fuel injector, comprising:  
a body; and  
means for delivering fuel without unexpected variations in flow rate.
20. (New) The injector of claim 19, wherein  
the body comprises a chamber;  
the injector further comprises a means for defining a fuel flow section, the means for defining a fuel flow section being arranged in the body; and  
the means for delivering fuel without unexpected variations in flow rate comprises a means for delivering fuel to the chamber, the means for delivering fuel to the chamber being associated with the means for defining a fuel flow section.
21. (New) The injector of claim 20, wherein the means for delivering fuel to the chamber comprises a frustoconical segment.